

Nuclear Energy Landscape: The New Administration & Congress

United States Nuclear Infrastructure Council

**Virginia Nuclear Energy Consortium Authority
March 23, 2017**

About the USNIC

- Leading business consortium advocate for increased U.S. nuclear energy use and global deployment of American nuclear technologies and services
- Represents nearly 90-member companies encompassing wide representation of the nuclear energy supply chain and key movers
- Member of the U.S. Civil Nuclear Trade Advisory Committee and Chair of the Advocacy Subcommittee
- USNIC encompasses eight working groups and select task forces, including:
 - Advanced Manufacturing & Supply Chain
 - Back-End
 - International
 - Advanced Reactors Task Force
 - Environmental Management Task Force
 - Nuclear Transportation Task Force
 - Nuclear D&D Task Force
 - Outreach & Programs

Out & In

Out	IN
<ul style="list-style-type: none">• Hope & Change• Popular vote• Executive orders• Regulation• Spending• Saving the Planet• Climate change• Saving wetlands• Resenting Andrew Jackson• Hair	<ul style="list-style-type: none">• Shock & Awe• Electoral college• Executive orders• Deregulation• Cutting• Building the Wall• Jobs, Exports• Draining the swamp• Praising Andrew Jackson• Glasses

Out & In

Out	IN
Hair	Glasses



Leadership changes

- DOE Secretary Rick Perry
- NRC Chair Kristine Svinicki
- House Energy Chair Greg Walden (R-Oregon)
- Senate EPW Chair John Barrasso (R-Wyoming)
Ranking Tom Carper (D-Delaware)
- Senate Democrat leader Chuck Schumer (D-NY)

Nuclear Energy & President Trump

- ✓ Made in the USA
- ✓ Jobs, Manufacturing
 - Most jobs per MW
 - Highest paying jobs per MW
 - Reshoring of manufacturing (SMRs)
- ✓ Exports
 - \$2 trillion+ global market to 2040
- ✓ Competitiveness (Russia, China)
- ✓ Clean energy leadership

President Trump to date

- 33 executive orders & Pres. memorandums to date
- 13 nominees to head major departments and agencies confirmed.
- 2 cabinet nominees unconfirmed
- Slowest Cabinet confirmation process in modern history

Secretary Perry to date

- Reversed view on dismantling department
- “Not going to kick the can down the road” on nuclear waste
- SMRs exactly the kind of thing that government should be funding
- Supports applied science and gov’t-private commercialization
- National labs a crown jewel

X-Factors

- NRC vacancies/nominees
- Subcabinet, other key appointments
- FY2017 Continuing Resolution
- FY2018 Budget Request (details pending)
 - NNSA up 11%
 - DOE non-defense down 21%
 - Yucca up \$120M, EM up to \$6.5B
 - \$2B cut in energy programs; \$900M cut in science
 - Elimination of Loan Guarantee Program
- Strong bipartisan Congressional support and appropriations leadership

Challenges

- Absence of clear Trump nuclear energy platform
- De-emphasis on climate change as a driver
- US fleet premature closings
- Impacts on R&D, commercialization
 - Advanced Technology Fuel
 - SMR commercialization
 - Advanced Reactors
- EX-IM Bank dysfunction
- Infrastructure linkage TBD

Crystal Ball

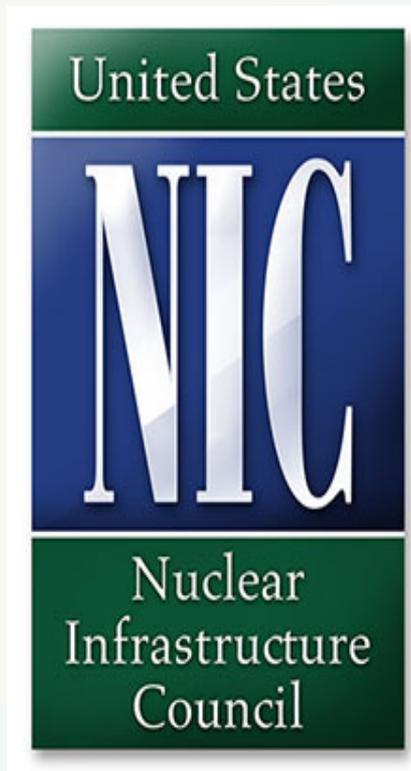
- Yucca Mountain reboot
- Weapons complex investment
- Environmental management acceleration, other infrastructure investment
- Office of Nuclear Energy shifts from R&D to advocacy
- SMRs, advanced reactors, accident tolerant fuels upside
- NRC regulatory reform & modernization (S. 512)
- FERC flexibility will help current fleet, state-based incentives
- National Security Council emphasis on commerce, trade over nonproliferation
- Downward pressure on spending, Fed workforce reductions by attrition

Nuclear Infrastructure (10 years)

- **Apollo program to spur advanced reactors**
 - \$2 billion
 - 1,500 jobs
- **Advanced Test Reactor**
 - \$2.5 billion
 - 1000+ jobs
- **Yucca**
 - \$5 billion
 - 3000+ jobs
- **MOX Project Ramp**
 - \$1.3 billion (8 years)
 - 1000 new jobs
- **SMR Commercialization (Phase II)**
 - \$1 billion
 - 6,000 new jobs (two sites)
- **Accelerated EM Cleanup**
 - \$2 billion
 - 2,000 jobs
- **WIPP recovery**
 - \$500 million
 - 500 jobs

Summary

- Trump Presidency less predictable, more challenging but more potential upside for nuclear energy
- Nuclear energy is well-positioned to align with jobs, exports, US leadership
- Challenges to the current fleet will persist
- Tangible progress can be made toward a US nuclear energy resurgence with a redoubled efforts



The United States Nuclear Infrastructure Council (USNIC) is the leading U.S. business consortium advocate for nuclear energy and promotion of the American supply chain globally. Composed of nearly 90 companies USNIC represents the "Who's Who" of the nuclear supply chain community, including key utility movers, technology developers, construction engineers, manufacturers and service providers. USNIC encompasses seven working groups and select task forces. For more information visit www.usnic.org

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